AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1-30. (canceled).
- 31. (previously presented) An isolated monoclonal antibody MJ-170 produced by hybridoma cell line MJ-170 on deposit with the American Type Culture Collection (ATCC) as accession number PTA-5286.
- 32. (previously presented) An isolated monoclonal antibody MJ-171 produced by hybridoma cell line MJ-171 on deposit with the ATCC as accession number PTA-5287.
- 33. (previously presented) An isolated monoclonal antibody MJ-172 produced by hybridoma cell line MJ-172 on deposit with the ATCC as accession number PTA-5288.
- 34. (previously presented) An isolated monoclonal antibody MJ-173 produced by hybridoma cell line MJ-173 on deposit with the ATCC as accession number PTA-5302.
- 35. (previously presented) A hybridoma cell line MJ-170 on deposit with the ATCC as accession number PTA-5286.
- 36. (previously presented) A hybridoma cell line MJ-171 on deposit with the ATCC as accession number PTA-5287.
- 37. (previously presented) A hybridoma cell line MJ-172 on deposit with the ATCC as accession number PTA-5288.
- 38. (previously presented) A hybridoma cell line MJ-173 on deposit with the ATCC as accession number PTA-5302.
 - 39. (canceled).
- 40. (currently amended) An A conjugate comprising an antibody of claim 31, 32, 33 or 34, wherein said antibody is covalently linked attached to a cytotoxic agent or a prodrug of a cytotoxic agent.
- 41. (currently amended) The <u>antibody conjugate</u> of claim 40, wherein said cytotoxic agent is a small drug <u>molecule</u>.

- 42. (currently amended) The <u>antibody eonjugate</u> of claim 40, wherein said cytotoxic agent is a maytansinoid, a taxoid, or a CC-1065 analog.
- 43. (original) A composition comprising an antibody of claim 31, 32, 33 or 34 and a pharmaceutically acceptable carrier.
- 44. (currently amended) A composition comprising the <u>antibody conjugate</u> of claim 40 and a pharmaceutically acceptable carrier.
- 45. (withdrawn currently amended) A method of treating a subject <u>having a cancer</u> in need thereof, comprising administering to <u>a said</u>-subject <u>having a cancer a therapeutically an</u> effective amount of the composition of claim 43.
- 46. (withdrawn currently amended) A method of treating a subject <u>having a cancer</u> in need thereof, comprising administering to <u>a said-subject having a cancer a therapeutically an</u> effective amount of the composition of claim 44.

47-48. (canceled).

- 49. (withdrawn currently amended) The method of claim <u>45</u>47, wherein said cancer is a cancer wherein Muc1 or Muc16 is overexpressed.
- 50. (withdrawn currently amended) The method of claim <u>46</u>48, wherein said cancer is a cancer wherein Muc1 or Muc16 is overexpressed.
- 51. (new) The method of claim 45, wherein said cancer is ovarian cancer or breast cancer.
- 52. (new) The method of claim 46, wherein said cancer is ovarian cancer or breast cancer.
- 53. (new) An isolated antibody that specifically binds to a Muc1 peptide selected from the group consisting of:
 - a) QLTLAFREGTINVHDVETQFN (SEQ ID NO:8);
 - b) QYKTEAASRYNLTISDVSVSD (SEQ ID NO:9);
 - c) FLQIYKQGGFLGLSNIKFRPG (SEQ ID NO:10); and
 - d) VPFPFSAQSGAGVPGWGIA (SEQ ID NO:12).
- 54. (new) An isolated antibody that specifically binds to a Muc16 peptide selected from the group consisting of:

a)	SSVLVDGYSPNRNEPLTGNS	(SEQ ID NO:14);
b)	TNYQRNKRNIEDALNQLFRN	(SEQ ID NO:15);
c)	FRNSSIKSYFSDCQVSTFRSV	(SEQ ID NO:16);
d)	SVPNRHHTGVDSLCNFSPLARRV	(SEQ ID NO:17); and
e)	DRVAIYEEFLRMTRNGTQLQNFTLDRSS	(SEQ ID NO:18).

- 55. (new) The antibody of claim 53 or 54, wherein said antibody is selected from the group consisting of a monoclonal antibody, a recombinant antibody, a fragment of a recombinant antibody, a humanized antibody, and an antibody displayed upon the surface of a phage.
- 56. (new) The antibody of claim 53 or 54, wherein said antibody is covalently linked to a cytotoxic agent or a prodrug of a cytotoxic agent.
- 57. (new) The antibody of claim 56, wherein said cytotoxic agent is a small drug molecule.
- 58. (new) The antibody of claim 56, wherein said cytotoxic agent is a maytansinoid, taxoid, or CC-1065 analog.
- 59. (new) A composition comprising the antibody of claim 53 or 54 and a pharmaceutically acceptable carrier.
- 60. (new) A composition comprising the antibody of claim 56 and a pharmaceutically acceptable carrier.
- 61. (new) A method of treating a subject having a cancer, comprising administering to a subject having a cancer a therapeutically effective amount of the composition of claim 59.
- 62. (new) A method of treating a subject having a cancer, comprising administering to a subject having a cancer a therapeutically effective amount of the composition of claim 60.
- 63. (new) The method of claim 61, wherein said cancer is a cancer wherein Muc1 or Muc16 is overexpressed.
- 64. (new) The method of claim 62, wherein said cancer is a cancer wherein Muc1 or Muc16 is overexpressed.
- 65. (new) The method of claim 61 or 62, wherein said cancer is ovarian cancer or breast cancer.
 - 66. (new) A method of screening a subject for cancer, comprising:

- (a) measuring the amount of Muc1 in a biological sample obtained from a subject using the antibody of claim 53; and
- (b) comparing the amount of Muc1 measured in (a) to the amount of Muc1 in a cancerous and a non-cancerous control, thereby screening a subject for cancer.
 - 67. (new) A method of screening a subject for cancer, comprising:
- (a) measuring the amount of Muc16 in a biological sample obtained from a subject using the antibody of claim 54; and
- (b) comparing the amount of Muc16 measured in (a) to the amount of Muc16 in a cancerous and a non-cancerous control, thereby screening a subject for cancer.
- 68. (new) The method of claim 66 or 67, wherein said cancer is ovarian cancer or breast cancer.
- 69. (new) An antibody that binds the same epitope as an antibody selected from the group consisting of (a) antibody MJ-170 produced by hybridoma cell line MJ-170 on deposit with ATCC as accession number PTA-5286, (b) antibody MJ-171 produced by hybridoma cell line MJ-171 on deposit with ATCC as accession number PTA-5287, (c) antibody MJ-172 produced by hybridoma cell line MJ-172 on deposit with ATCC as accession number PTA-5288, and (d) antibody MJ-173 produced by hybridoma cell line MJ-173 on deposit with ATCC as accession number PTA-5302.
- 70. (new) The antibody of claim 69, wherein said antibody is selected from the group consisting of a monoclonal antibody, a recombinant antibody, a fragment of a recombinant antibody, a humanized antibody, and an antibody displayed upon the surface of a phage.
- 71. (new) A hybridoma that produces an antibody that specifically binds to a MUC1 peptide selected from the group consisting of:
 - a) QLTLAFREGTINVHDVETQFN (SEQ ID NO:8);
 - b) QYKTEAASRYNLTISDVSVSD (SEQ ID NO:9);
 - c) FLQIYKQGGFLGLSNIKFRPG (SEQ ID NO:10); and
 - d) VPFPFSAQSGAGVPGWGIA (SEQ ID NO:12).
- 72. (new) A hybridoma that produces an antibody that specifically binds to a MUC16 peptide selected from the group consisting of:

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a)	SSVLVDGYSPNRNEPLTGNS	(SEQ ID NO:14);
b)	TNYQRNKRNIEDALNQLFRN	(SEQ ID NO:15);
c)	FRNSSIKSYFSDCQVSTFRSV	(SEQ ID NO:16);
d)	SVPNRHHTGVDSLCNFSPLARRV	(SEQ ID NO:17); and
e)	DRVAIYEEFLRMTRNGTQLQNFTLDRSS	(SEQ ID NO:18).